BARTON-UPON-IRWELL

RURAL DISTRICT COUNCIL.

ANNUAL REPORT

FOR 1901.

BY

ALBERT EDWARD BERRY,

(MEDICAL OFFICER OF HEALTH),

C. C. HOOLEY, C.E.,

(SURVEYOR).

—AND—

WILLIAM BLAND,

(SANITARY INSPECTOR).

ISSUED BY

THE BARTON-UPON-IRWELL RURAL DISTRICT COUNCIL,

JANUARY, 1902.

URMSTON.

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The Medical Officer's Report.

PATRICROFT, JANUARY 22ND, 1902.

TO THE BARTON-UPON-IRWELL RURAL DISTRICT COUNCIL.

GENTLEMEN,

I have the honour of submitting to you my Annual Report on the health and sanitary condition of your district for the year 1901.

AREA AND POPULATION.

The census was taken this year.

The population has increased 909, or 12 per cent. since the census of 1891.

The acreage and population of the several townships in the district for the year 1901 are as follows :—

Township.	Area in Acres.	Population 1891.	Population, 1901.
Barton Moss	1,407	235	234
Davyhulme	2,701	1,363	1,231
Flixton	1,564	2,786	3,656
Clifton	1,193	2,775	2,947
Total	6,865	7,159	8,063

Barton Moss shows a stationary population.

Davyhulme a decrease of 132, Flixton an increase of 870, and Clifton one of 172

BIRTHS.

The number of births registered during the year was 192, or 17 less than in the previous year, and the birth-rate for the year is 23·7 per 1,000 of the population.

The sex of the children born is given in the following table :—

	Males.	Females.	Total.	Birth-rate.
Barton Moss	2	2	4	17·0
Davyhulme	15	15	30	24·3
Flixton	42	46	88	24·0
Clifton	31	39	70	23·7
Whole District	90	102	192	23·7

DEATHS.

The number of deaths registered during the year was 112, or 14 less than in the previous year, and the death-rate for the year was 13·8 per 1,000 living; 9 deaths of residents (i.e., persons who have been taken out of the district on account of illness and died elsewhere) dying in hospitals outside the district are included in the deaths.

Infant Mortality :—

Nineteen deaths of children under one year of age have been registered, giving a death-rate of children under the age of one year of 98 to 1,000 births, against 138 to 1,000 births in 1900.

This low infant mortality is very satisfactory.

The following table shows the sex of the persons dying and the death-rates in the different localities of the district :—

	Deaths.	Males.	Females.	Death-rate.
Barton Moss	5	4	1	21·3
Davyhulme	18	12	6	14·6
Flixton	42	24	18	11·4
Clifton	47	29	18	15·9
Whole District	112	69	43	13·8

The following table shows the number of deaths from all causes, from the seven principal infectious diseases (viz., smallpox, measles, scarlet fever, diphtheria and membranous croup, whooping cough, typhus, and typhoid fevers), from phthisis, and from diarrhœa, with the death-rates per 1,000 population, for each township of the district :—

Township.	All Causes.		7 Infectious Diseases.		Phthisis.		Diarrhœa.	
	Deaths.	Death-rate.	Deaths.	Death-rate.	Deaths.	Death rate.	Deaths.	Death-rate.
Barton Moss ...	5	21·3	3	12·8	—	—	—	—
Davyhulme ..	18	14·6	—	—	1	·8	—	—
Flixton	42	11·4	1	0·27	5	1·3	1	·2
Clifton	47	15·9	9	3	3	1	2	·6
Whole District	112	13·8	13	1·6	9	1·1	3	·3

There were 112 deaths registered during the year, or 14 less than the previous year, and the death-rate was 13·8 per thousand living. This is below the corrected death-rate for 1900, which was 15. In last year's report the death-rate for 1900 was given as 13·6, this error being due to the fact that the population for the year had been over-estimated, as shown by the census of 1901.

The total number of deaths from the seven principal infectious diseases was 13, giving a death-rate from these diseases of 1·6, against 2·17 in 1900, ·9 in 1899, 1·1 in 1898, and ·9 in 1897.

The following table shows the death-rates in the northern township of Clifton and in the southern districts :—

Locality.	Population.	Death Rates. All Causes	Death Rates. Seven Infectious Diseases.
Clifton ...	2,947	15·9	3·0
Barton Moss, Davyhulme, Flixton	5,121	12·6	·7

The disparity between the death-rates of the northern township of Clifton, with its mining and factory population, and the southern districts, mainly agricultural and residential, is becoming less marked.

The death-rate for Clifton was 15·9 in 1901, against 12·6 in the southern districts.

In 1900 it was 19·8 against 10·8; in 1899, 16·1 against 8·5; and in 1898, 21·0 against 7·9.

The diarrhœa death-rate in Clifton was ·6 in 1901, 1·6 in 1899, and 1·0 in 1898.

Fourteen cases of typhoid fever were notified in Clifton in 1901, 6 in 1900, 27 in 1899, and 48 in 1898.

This improvement in the bill of health for Clifton is very satisfactory, and is owing to the street improvements you have made, and the other means which have been taken to remedy the pre-existing contamination of the soil.

INFECTIOUS DISEASES.

The new cases of infectious disease that have been reported during the year are shown in Table III.

115 cases have been reported during the year, against 63 in 1900, 96 in 1899, and 88 in 1898.

It is interesting to note that although there have been 52 cases reported more than in the previous year, yet the death-rate from the seven principal infectious diseases was lower, being 1·6 for 1901, against 2·17 in 1900.

TYPHOID FEVER.

There has been an increase in the number of cases of typhoid (enteric fever). In 1901, 15 cases of this disease, 14 being in Clifton, were reported, against 8 in 1900, 29 in 1899, and 51 in 1898. The year has been favourable to the development of typhoid fever, on account of the dry summer being followed by a late wet autumn, so that it is very satisfactory to have had only 15 cases reported.

SCARLET FEVER.

There has been an increase in the number of scarlet fever notifications, 41 cases having been notified, against 23 in 1900, and 45 in 1899.

MEASLES.

The district has been singularly free from this disease.

WHOOPING COUGH.

Only one death has resulted from whooping cough.

INFLUENZA.

Influenza was the cause of death in four cases.

PHTHISIS.

Phthisis caused nine deaths, other tubercular diseases 6, and respiratory diseases 15.

Voluntary notification of phthisis is not in force in the district, but disinfection is being carried out as far as possible after fatal cases of the disease.

DIARRHŒA.

Diarrhœa has only accounted for three deaths, and the death-rate of ·3 from this disease is a low one.

DIPHTHERIA.

Diphtheria has been unusually prevalent in parts of the district, 49 cases having been reported; 9 in Barton Moss, 2 in Davyhulme, 3 in Flixton, and 35 in Clifton.

Diphtheria and membranous croup have caused 8 deaths, 2 in Barton Moss, 6 in Clifton, and none in the other districts.

Clifton :—

Diphtheria was present during every month of the year, except April. The majority of the cases were associated with school attendance in adjoining districts. In the latter two months, a few adults were attacked with the disease, but as a matter of fact, at no time did it become epidemic.

Barton Moss :—

The cases of diphtheria which occurred in this township were connected with the transit of large quantities of offensive manure, which may have given rise to the disease.

Attention has been drawn to this feature of the altered conditions of the locality, due to the Corporation of Manchester using it as a refuse disposal area, and steps are being taken by the Manchester Corporation to minimise as far as possible the creation of nuisances.

The method of dealing with infectious diseases is as follows:—Each case notified is visited as early as possible, isolation is enjoined, either at home, or by removal to the Ladywell

Sanatorium, and all children from the infected house are prevented from attending school, until such time that a certificate of freedom of the home from infection is issued to the schoolmaster.

Disinfection of wearing apparel, discharges, drains, and privies is carried out, and at the termination of the illness, the room and its contents are thoroughly fumigated, either with sulphur or formaldehyde gas; such articles as require it being submitted to a Lyon's superheated steam disinfector, or destroyed and compensation granted. Disinfectants, free of cost, are provided in each township. Careful inspection of premises is always carried out, and defects, temporary or structural, are rectified.

School attendance, while there is danger of infection, is prohibited, information being given to schoolmasters, &c., as to the exclusion and re-admission of children from infected families.

Proceedings have been taken under Section 126 of the Public Health Act, 1875. for exposing several scarlet fever cases in a public thoroughfare, viz., at a funeral, where a large number of persons were congregated.

The Magistrates imposed a fine of 10s. and costs. This action has had the effect of improving the observance of isolation in this particular district.

The past year has shown that bacteriological examination would have been of great advantage in several instances, and I am now prepared to advise the Council to make arrangements with Professor Delepine, of the Owens College, for the examination of morbid products in cases of diphtheria, &c.

There has been no necessity to advise closure of schools.

No special report has been required.

Throughout the year the regular inspection and removal of nuisances has been carried out, and structural defects, as far as possible, have been remedied.

WATER SUPPLY.

The whole district, except a few scattered dwellings, is now supplied by town's water, partly by Manchester and partly by Bolton.

SCAVENGING.

The scavenging of Clifton is carried out in a satisfactory manner by a contractor. The arrangement of Flixton is not so satisfactory. This district has outgrown the present system, and it is very desirable that the work should now be taken in hand wholly by the Council. At Barton Moss and Davyhulme, no difficulty is experienced in this respect.

BAKE-HOUSES, SLAUGHTER-HOUSES, AND DAIRIES.

Bake-houses, slaughter-houses, and dairies have been duly inspected and found satisfactory. Some of the old cowsheds do

not conform to the requirements as to air space, but no action has been taken during the year to deal with them, as pending the settlement of an appeal in a neighbouring district, it would not be advisable to press for structural alterations.

The only offensive trade in the district is that of a small soap works in Davyhulme, which has been carried on in a satisfactory manner.

No houses unfit for human habitation have come under our notice during the year.

At the close of 1900, 2 samples of vinegar and 3 of beer were submitted to the County Analyst for the detection of arsenic. The certificate gave 4 samples as pure, whilst a trace of arsenic was found in one of beer.

Acting upon the suggestion of the County Analyst, a further sample of beer was submitted to him, which was certified pure.

ALBERT EDWARD BERRY, M.D. (Lond.),

Medical Officer of Health.

TABLE I.

VITAL STATISTICS OF WHOLE DISTRICT DURING 1901 AND PREVIOUS YEARS.
NAME OF DISTRICT—BARTON-UPON-IRWELL.

Year.	Population estimated to middle of each Year.	Births.		Total Deaths Registered in the District.				Total Deaths in Public Institutions in the District.	Deaths of Non-Residents registered in Public Institutions in the District.	Deaths of Residents registered in Public Institutions beyond the District	Nett Deaths at all ages belonging to the District.	
				Under 1 Year of Age.		At all Ages.						
		Number.	Rate.	Number.	Rate per 1,000 Births registered.	Number.	Rate.				Number.	Rate.
1	2	3	4	5	6	7	8	9	10	11	12	13
1895	7522	211	28	23	109	102	13					
1896	7613	202	26	25	123	112	14					
1897	7704	216	28	29	134	110	14					
1898	7794	205	26	27	131	106	13					
1899	7885	203	25	30	147	99	12					
1900	7976	209	26	29	138	117	14			9	126	15
Averages for years 1895-1900.	7749	207	26	27	130	107	13					
1901	8068	192	23·7	19	98	103	12·7			9	112	13·8

Area of District in Acres (exclusive of area covered by water.) .. 6865

Total population at all ages (1901.) 8068

Number of inhabited houses 1726

Average Number of persons per house .. 4·6

I. Institutions within the District receiving sick and infirm persons from outside the District.	II. Institutions outside the District receiving sick and infirm persons from the District.	III. Other Institutions, the deaths in which have been distributed among the several localities in the District.
	1. The Union Infirmary, Patricroft Workhouse. 2. Urmston Cottage Hospital. 3. Manchester Royal Infirmary. 4. Pendlebury Children's Hospital.	Ladywell Sanatorium, Salford.

TABLE II.

VITAL STATISTICS OF SEPARATE LOCALITIES IN 1901 AND PREVIOUS YEARS.

NAME OF DISTRICT—BARTON-UPON-IRWELL.

Names of Localities.	Whole District.				Barton Moss.				Davyhulme.				Flixton.				Clifton.			
Year.	Population estimated to middle of each year.	Births registered.	Deaths at all ages	Deaths under 1 year.	Population estimated to middle of each year.	Births registered	Deaths at all ages	Deaths under 1 year.	Population estimated to middle of each year.	Births registered.	Deaths at all ages	Deaths under 1 year.	Population estimated to middle of each year.	Births registered.	Deaths at all ages	Deaths under 1 year.	Population estimated to middle of each year.	Births registered.	Deaths at all ages	Deaths under 1 year.
1895 ..	7522	211	102	23	235	9	2	..	1310	26	14	4	3134	68	21	4	2860	108	65	15
1896 ...	7613	202	112	25	235	4	...	...	1297	25	16	2	3221	74	42	9	2900	99	54	14
1897 ...	7704	216	110	29	235	6	5	2	1283	33	14	2	3308	82	37	5	2900	95	54	20
1898 ...	7794	205	106	27	235	3	3	1	1270	28	12	4	3395	83	30	8	2900	91	61	14
1899 ...	7885	203	99	30	235	5	2	2	1257	22	14	4	3482	83	36	10	2920	93	47	14
1900 ...	7976	209	126	29	235	11	1	...	1244	27	22	3	3569	91	45	9	2920	80	58	17
Averages of years 1895 to 1900.	7749	207	109	27	235	6	2	·8	1277	26	15	3	3351	75	36	6	2866	95	55	15
1901 ...	8068	192	112	19	234	4	5	1	1231	30	18	2	3656	88	42	6	2947	70	47	10

TABLE III.

CASES OF INFECTIOUS DISEASE NOTIFIED DURING THE YEAR 1901.

NAME OF DISTRICT—BARTON-UPON-IRWELL.

NOTIFIABLE DISEASE.	CASES NOTIFIED IN WHOLE DISTRICT.							TOTAL CASES NOTIFIED IN EACH LOCALITY.							NO. OF CASES REMOVED TO HOSPITAL FROM EACH LOCALITY.						
	At all Ages.	At Ages—Years.						Barton Moss.	Davyhulme.	Flixton.	Clifton.				Barton Moss.	Davyhulme.	Flixton.	Clifton.			
		Under 1.	1 to 5.	5 to 15.	15 to 25.	25 to 65.	65 and upw'ds.														
Small-pox																					
Cholera																					
Diphtheria	49	1	7	19	15	7		9	2	3	35				3			2			
Membranous Croup..																					
Erysipelas	9				2	7			1	3	5										
Scarlet Fever... ...	41		8	30	3				4	17	20						4				
Typhus Fever ...																					
Enteric Fever... ..	15		1	2	3	9		1			14							5			
Relapsing Fever ...																					
Continued Fever ...																					
Puerperal Fever ...	1					1				1											
Plague																					
Totals	115	1	16	51	23	24		10	7	24	74				3		4	7			

TABLE IV.

CAUSES OF AND AGES AT DEATH DURING YEAR 1901.

NAME OF DISTRICT—BARTON-UPON-IRWELL.

Causes of Death.	Deaths in or belonging to whole district at subjoined ages.							Deaths in or belonging to localities (at all ages).			
	All ages.	Under 1 year.	1 and under 5.	5 and under 15.	15 and under 25.	25 and under 65.	65 and upwards.	Barton Moss.	Davyhulme.	Flixton.	Clifton.
1	2	3	4	5	6	7	8	9	10	11	12
Small-pox ...											
Measles...											
Scarlet fever ...	2		1		1					1	1
Whooping cough	1		1								1
Diphtheria and membranous croup	8	1	3	4				2			6
Croup											
Fever: Typhus											
Fever: Enteric	2					2		1			1
Fever: Other continued ...											
Epidemic influenza ..	4					2	2		1	1	2
Cholera											
Plague											
Diarrhœa...	3	1	1			1				1	2
Enteritis	2	1					1		1		1
Puerperal fever	1					1				1	
Erysipelas											
Other septic Diseases ...	1					1					1
Phthisis	9		1		1	7			1	5	3
Other tubercular diseases ...	6	3	3							1	5
Cancer, malignant disease ..	2					1	1			1	1
Bronchitis	7	3				3	1			4	3
Pneumonia	8	2	1			2	3		3	2	3
Pleurisy											
Other diseases of respiratory organs											
Alcoholism / Cirrhosis of liver ..	2					2				1	1
Venereal diseases											
Premature birth	1	1								1	
Diseases and accidents of parturition	2					2				1	1
Heart diseases ...	8				3	2	3		2	3	3
Accidents	1			1						1	
Suicides	4				1	3			1	2	1
All other causes	38	7	3	2	2	12	12	2	9	16	11
All causes	112	19	14	7	8	41	23	5	18	42	47

The Surveyor's Report.

SURVEYOR'S OFFICE,
PATRICROFT,
JANUARY 1ST, 1902.

TO MESSRS. THE CHAIRMAN AND MEMBERS OF THE BARTON-UPON-IRWELL RURAL DISTRICT COUNCIL.

GENTLEMEN,

I beg to submit my annual report as follows :—

FLIXTON PAROCHIAL COMMITTEE.

T. H. HELSBY, ESQ., Chairman.

No private improvement works have been executed under the 150th section of the Public Health Act, 1875, during the year.

The number of houses built in Flixton in 1892 was 10, the corresponding number in 1901 being 33.

The following table gives the number of houses built in Flixton for the years 1892-1901 :—

1892.	1893.	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.
10.	33.	48.	28.	57.	45.	72.	53.	62.	33.

The following plans have been laid before your Committee for their approval :—

New Streets.	Dwelling-houses.	Other Buildings.
1.	83.	4.

HIGHWAYS.

You have under your charge 5 miles, 7 furlongs, 78 yards of roads, comprising 3 miles, 2 furlongs, 211 yards of secondary roads, i.e.—roads for which you receive from the County Council a grant in aid ; and 2 miles, 4 furlongs, 87 yards of other roads, i.e. —roads which are wholly maintained at your own cost, without any assistance from the County Council.

The table below gives the reference number by which the County Council recognises the roads, the amount of grant in aid the name of the road, and the names and lengths of other roads.

Roads.	Cnty Council Reference No.	Grant.	Name of Road.	Length. Miles.	Fulgs.	Yards.
Secondary Roads	44	£100	Irlam .. Church ... Flixton ...	2	4	112
	43	£24	Woodsend ...		6	99
				3	2	211
Other Roads			Moorside Road	—	1	176
			Western ,,	—	1	88
			Carrington ,,	—	1	11
			Brook ,,	—	1	198
			Flixton ,,	—	6	44
			Chassen ,,	—	3	198
			Lime Avenue	—	—	188
			The Hollies	—	—	72
			Back Streets	—	1	11
			Princess Road	—	1	124
			Back Barton Avenue, North and South ..	—	—	77
				2	4	87

The following work has been carried out during the year :—

44 Secondary Road :—

In Flixton Road a new surface-water drain has been laid from Delamere Road to Brook Road, with the necessary gullies and a paved sett channel, at a cost of £47 14s. 9d. And from Brook Road to the Smithy the road surface has been covered with macadam and steam-rolled, and completed at a cost of £77 19s. 3d

Flixton Railway Bridge, on the west side, a length of 7in. by 12in. kerb has been laid, and the south side covered with macadam, at a cost of £25 10s. 10d. And along past Flixton House a length of 100 yards has been covered with macadam and steam-rolled, at a cost of £19 3s. 0d.

43 Secondary Road :—

Woodsend Road, opposite the Flixton Union Inn, the road has been widened by taking down the gable of a house and setting the garden and field fences back. A surface water drain

has been laid with gullies, a footpath formed for 110 yards with 7in. by 12in. kerbs, and the roadway reconstructed at a cost of £135 1s. 2d.

Other Roads :—

Brook Road, for a distance of 180 lineal yards, the road surface has been covered with slag and steam-rolled and a paved sett channel laid to the surface-water gullies, at a cost of £31 14s. 9d.

The road widening scheme in the following roads :—

Irlam Road
Church Road
Woodsend Road
Moorside Road
Carrington Road
Flixton Road
Chassen Road
Brook Road

has received the Local Government Board's sanction for borrowing powers to the amount of £930 0s. 0d., for the purchase of the lands and buildings, and the fences have been set back belonging to the following owners :—

Site.	Owners.
Irlam Road	Mr. John Stott
,, ,,	,, ,,
,, ,,	Mr. William Warburton
,, ,,	Mr. William Booth
Woodsend Road	Mr. John Stott

Note.—The trees belonging to Mr. Stott I have not removed. Mr. Stott wishes them to remain.

The scheme agreed upon between Davyhulme and Flixton for the provision of a surface-water drain along Brook Road and Moorside Road, and surface improvements in Moorside Road, estimated to cost £700 0s. 0d., has been executed. The work was spread over three years.

The following is the total expenditure :—

	£	s.	d.
Davyhulme	349	13	9
Flixton	350	1	6
	£699	15	3

A water-cart has been purchased for use on the highways, but owing to the scarcity of water last summer it was only used on two occasions.

The footpaths have been generally covered with cinders and spar, and are now in a very fair state of repair.

The cutting of hedges throughout the parish has been fairly well attended to by the owners.

The question of Irlam Ferry has been prominently before your Committee; and meetings have been held by a Joint Committee from Irlam Council and your Committee. A scheme for its improvement was drawn up by the Canal Company and the Joint Committee, after a meeting of the Committee, when the Canal Company's scheme did not quite recommend itself to them. A final meeting of the Canal Company and your Joint Committee took place, when it was decided to agree to the Canal Company's scheme, with certain alterations, which have since been made to the plans, and your Committee conditionally approved such plans, with the following note endorsed on the Canal Company's plans :--

"These plans are approved on the understanding that this Council disclaims any responsibility for the satisfactory working of the Ferry consequent upon their having approved such plans, and further, that no responsibility attaches to the Council in the mode of working the Ferry as proposed by the Ship Canal Company and shown on the said plans." So for the present the matter is at rest.

Your Committee is giving every attention to all works in connection with building operations, improvement of roads, and general maintenance.

DAVYHULME PAROCHIAL COMMITTEE.

JOHN SHARP, ESQ., Chairman.

I have stated each year that a scheme for the main-sewering of this township has been prepared, forwarded to the Local Government Board, and sanction obtained for your Council to borrow £16,000 for the work. But your Committee has not considered that the time has come when it is necessary to commence operations.

No private street improvement works have been executed in this township.

The following table gives the number of houses built in Davyhulme in the years 1892-1901 :--

1892.	1893.	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.
0	1	2	1	1	2	1	0	0	0

The following plans have been laid before your Committee for approval :—

New Streets.	Dwelling-houses.	Other Buildings.
0	4	Addition to Church.

You have under your charge 4 miles, 2 furlongs, 169 yards—comprising 1 mile, 6 furlongs, 37 yards of secondary roads, i.e.—

roads for which you receive from the County Council a grant in aid; and 3 miles. 0 furlongs, and 132 yards of other roads, i.e.—roads which are wholly maintained at your own cost, without any assistance from the County Council.

The following table gives the reference number by which the County Council recognises the secondary roads, the amount of grant in aid, the name and length, and the names and lengths of the other roads :—

Roads.	County Council Reference No.	Grant.	Name of Road.	Length. Miles.	Furlgs.	Yards.
Secondary Roads	43	£42	Davyhulme Lane	1	3	7
	43	£12	Crofts Bank Road		3	30
Other Roads ...			Redclyffe Road ...		5	130
			Bent Lanes.. ..	1	1	0
			Moorside Road ...	1	2	0
			Total length	4	6	169

43 Secondary Road : –

Crofts Bank Road.—This road has been covered up with macadam at a cost of £24 18s. 4d.

Davyhulme Road.—Along this length, from the old Lodge to Davyhulme Hall to Davyhulme House, has been covered with macadam and steam-rolled, at a cost of £53 13s. 4d. ; and from St. Mary's Church to Moorside Road, at a cost of £21 11s. 0d.

Bent Lanes.—The improvement to the road surface by converting the boulder into macadam has been completed towards the footpath leading to Barton Bridge, at a cost of £72 12s. 0d.

The scheme agreed upon between Flixton and Davyhulme for the provision of a surface-water drain along Brook Road and Moorside Road, estimated to cost £700 0s. 0d., has been executed. The work was spread over three years. The following is the total expenditure : –

	£	s.	d.
Flixton	350	1	6
Davyhulme	349	13	9
	£699	15	3

The footpaths in the whole of the township have been repaired with limestone chippings and cinders, and are in a good state of repair.

The cutting of the hedges alongside the footpaths and roads are being fairly well attended to.

CLIFTON.

	m.	f.	yds.
The length of Main Trunk Sewers is . .	1	3	96
And the length of Tributary Sewers is .	1	3	187
Total . . .	2	7	63

The sewers terminate at the top of Coppice Clough, where the sewage is treated in an open tank and a system of cinder beds which have been in use since 1891, and still continues to turn out a satisfactory effluent into the River Irwell.

The Irwell and Mersey Joint Committee has fixed the standard of a satisfactory effluent at one that does not absorb more than one grain of oxygen per gallon in the four hours' test.

The following are the results of the effluent samples taken by the Inspectors of that Committee during the year, and analysed by Sir H. Roscoe.

Sample Taken.	Result of Analysis.
January 30th	·15 grains per gallon
April 24th	·51 ,, ,,
July 24th	1·31 ,, ,,
September 25th	·34 ,, ,,

The cost of maintenance of sewers and outfall works, etc. during the year, has been £139 16s. 11d.

HIGHWAYS.

You have one main road which you repair as contractors to the County Council. The ordinary grant for maintenance is . .	£300	0	0
And this year for repairing the existing sett paving, etc., from the Kersley boundary towards the Seven Stars Hotel . . .	£250	0	0
And a further special grant for macadam and granite paving	£300	0	0
	£850	0	0

	mile.	fur.	yds.
The length of the main road . .	1	3	23

There are no secondary roads in this parish.

The following is the list of other roads and lengths which are maintained at your own cost :—

Billy Lane		1	80
Rake Lane		1	70
New Rake Lane			157
Vickers Street			158¼
Berry Street			102⅕
Richmond Street			45
Holt Street			44
Back Richmond Street			24
Back Manchester Road South			113
Back Manchester Road			45
Lomax Street			110
Back Berry Street			45
Gaskell Street			66⅓
Back Vickers Street			100
Rose Hill Street			108⅔
Side Street A.			24
Back Passage off Holt Street			17
Wroe Street			110⅔
Lomax Street, off Wroe Street			27
Back Manchester Road, off Wroe Street			30
Back Manchester Road, off Wroe Street			27
Cotton Street			56
Fitton Street			88½
Battery Street			108
Back Fitton Street South			37
Clough Street			65
Back Fitton Street North			33⅓
Back Cotton Street			38
Back Manchester Road North	1		72⅓
Side Street No. 1			29
Side Street No. 2			29
Thomas Street			29
Side Street No. 4			29
Side Street No. 5			29
Back New Rake Lane			10
Total—Miles	2	7	127

The number of houses built in 1891 was 13, and this year none.

The following table gives the number of houses built in the years 1892-1901 :—

1892.	1893.	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.
5	12	0	0	5	0	2	0	0	0

Rake Lane, from Billy Lane to Pepper Hill Bridge.—This road is now almost completed. It has been executed under agreement with the owners, as a private street improvement. The total length is 6 furlongs, 124 yards, and will next year become a highway for maintenance as an "other road."

BARTON MOSS.

You have one main road in your hands as contractors to the County Council The length is 1 mile, 6 furlongs, and 90 yards. The grant you receive for maintenance is £160 0s. 0d.

The County Council have a scheme of reconstruction now in hand, which you are carrying out as contractors, and when complete will be a great improvement.

The following table gives the number of houses built since 1895 :—

1895.	1896.	1897.	1898.	1899.	1900.	1901.
0	0	1	2	0	7	0

The Manchester Corporation and the Ship Canal Company have deviated the footpath for Hulme's Ferry to Liverpool Road towards Mr Gleaves' Farm, and stopped the footpath through the meadows to Salteye through tipping tons of dredgings out of the Canal Your Council at once took steps to prevent this action, and it has been finally agreed that temporary footpaths shall be made by the Corporation and the Canal Company during the time such dredgings shall become sufficiently solid to allow the ootpaths submerged being opened again to the public. The agreement has been signed, but the Manchester Corporation have up to now made very bad progress towards completing the works under agreement, so that to-day there is no footpath from Salteye to Hulme's Ferry along the old site.

DAVYHULME MAIN ROAD

You have one main road, extending from Barton Bridge to the Stretford boundary, measuring 2 miles, 4 furlongs, and 13 yards, which you repair as contractors to the County Council.
The grant for maintenance is £290 0s. 0d.

Generally the whole of the work in your district is receiving every attention, both in the examination of plans and the buildings during construction in the connection of house drains to main sewers, together with your sewers and outfall works, and the general maintenance of your roads.

I have the honour to be, Gentlemen,

Your obedient servant,

COSMO. C. HOOLEY,
Asso. Mem. Inst. C.E.

Union Offices, Patricroft.
January 1st, 1902.

Urmston and Flixton Drainage Joint Committe.

ENGINEER'S REPORT.

ENGINEER'S OFFICE,
PATRICROFT,
JANUARY 1ST, 1902.

TO MESSRS. THE CHAIRMAN AND MEMBERS OF THE URMSTON AND FLIXTON DRAINAGE JOINT COMMITTEE.

GENTLEMEN,

I beg to submit my annual report as follows :—

The following lengths of tributary sewers have been connected :—

In Urmston	.	133 yards
In Flixton	.	330 yards

which have increased the length from my last year's report, making the total lengths of sewers within the district :—

		miles.	furgs.	yds.
Urmston Main Trunk Sewers	...	3	2	200
,, Tributary Sewers	...	7	1	125
Flixton Main Trunk Sewers	...	5	0	17
,, Tributary Sewers	...	3	4	199
Total	...	19	1	101

THE OUTFALL WORKS AT FLIXTON

The works are in a satisfactory condition, and now entering upon the third year of construction, having been completed as they are at present on the 10th of November, 1899.

The standard of purity of the Irwell and Mersey Joint Committee is fixed that an effluent which does not absorb more than 1 grain of oxygen in 4 hours is a satisfactory one.

The following are the results of the analysis by Sir H. Roscoe of the samples taken by the Inspector of that Committee :

January 30	...	·35
April 24	...	·21
June 21	...	·84
September 25	...	·76
November 27	...	·87

The cost of maintenance for the year 1901 has been £178 0s. 0d., which is equal to 4¼d. per head of the population.

Your Committee has recently applied to the Local Government Board for borrowing powers to increase the area of your cinder area by 3,000 square yards, and when the works have been carried out you will be able to treat your night flow on an area as you do at present your day flow, and as the land will only be used for storm water, it is expected the return of the results of analysis will show even a higher standard than in the past.

The usual flushing of sewers has been continued with good results. I think it cannot be too widely known that your Committee has two men under my direct supervision, who do nothing else but continually flush and cleanse out your sewers and manholes ; and that every flush of water discharged at the increased velocity due to holding up the sewage in the manholes is charged with permanganate of potash—and that 3 cwts. are used in each year, which is equal to 100,000 gallons of powerful disinfectant, and that every three months the whole of your sewers are flushed out with water from the Corporation mains.

In addition, owing to complaints being made of sewer air escaping out of certain manholes, your Committee decided to try the effect of "The Webb system of sewer ventilation." Two lamps have been fixed since November last—one at the junction of the sewers near the Smithy at Flixton, and one at the junction of the sewers in Station Road, Urmston.

To test the value of the system on your sewers Mr. Webb, the patentee, met Mr. Fowler, M.Sc. (who has been recently investigating the condition of the Manchester sewers), and myself, when we found the temperature registered on a special thermometer 550 degrees Fahr., and the volume of sewer air passing through the lamp registered by a anemometer, taken over 22 hours' test, 5,500 cubic feet per hour.

As a further test Mr. Fowler and I blocked up the 9-inch pipe leading from the manhole to the lighted gas, and immediately the flame lost its brilliancy, and in about five minutes it went out, proving that without the sewer air extracted

from the sewers the coal gas would not burn, therefore we have come to the following conclusion :—

That whilst not in a position to prove that sewer air is extracted for any particular length—as it is a fact that sewer air does tend to collect at a particular manhole, and if that sewer air can be, as it is, extracted and cremated by the means of the "Webb Lamp"—a considerable result is obtained. As to the length upon which the system will act we are inclined to accept Mr. Webb's figures.

A diary is kept of every sewer, and in it written the number of times each length is flushed every year.

I again draw your attention to the necessity of excluding surface water from your sewers. The matter requires to be well understood—that the existing system of sewers was not designed to deal with more than half the roof water and the sewage from a population of 23,000, in times of rain ; therefore it is impossible to deal with more than that quantity, without increasing the capacity of your sewers, involving your districts in the cost of some thousands of pounds.

I have the honour to be, Gentlemen,

Your obedient servant,

COSMO. C. HOOLEY,

Asso. Mem. Inst. ; C.E.

Sanitary Inspector's Report.

SANITARY INSPECTOR'S OFFICE,
GREEN LANE, PATRICROFT,
JANUARY 22ND, 1902.

TO THE CHAIRMAN AND MEMBERS OF THE BARTON RURAL DISTRICT COUNCIL.

GENTLEMEN,

I beg to lay before you my Annual Report for the year 1901.

TABLE 1.

From January 1st to December 31st, 1901.	Barton Moss.	Clifton.	Davyhulme	Flixton.	Total.
No of Houses Visited and Sanitary Particulars reported upon	2	72	7	25	106
do. Notices served for the Abatement of Nuisances	2	3	3	3	11
do. Notices by letter in lieu of formal notices		62	4	24	90
do. Drains and Ditches cleansed	2	9	2	8	21
do. Slopstone Pipes disconnected or repaired		1			1
do. Drains trapped, disconnected, or ventilated		2	3		5
do. Provided with New Drains		3			3
do. Ashpits built up, covered in, or repaired...		46		6	52
do. Provided with Water Closets in substitution for Privies ...		1		9	10
do. Lime-washed and cleansed		6		1	7
do. Other Nuisances dealt with		3	2	3	8
Total	2	71	7	27	107
do. Water Certificates granted for New Houses				31	31
do. Licensed Slaughter Houses		2		2	4

CLIFTON.

The contract for emptying ashpits and the disposal of house refuse was let to the same contractor as in the two previous years. The work has been carried out in a satisfactory manner.

BARTON MOSS.

The condition of this district is undergoing a great change, owing to the use made of the moss land by the Manchester Corporation. During the year it has been necessary to direct attention to the nuisance caused (*a*) by tipping offensive refuse on roads, and (*b*) the bailing of liquid filth from the Corporation barges. In both cases the Corporation have put a stop to the practices complained of.

DAVYHULME.

The emptying of ashpits in this township is done by the farmers. The arrangement whereby the Council do the work upon application from the tenant has only been used 19 times during the year.

Attention has been given to Carr's Ditch to prevent obstructions in the flow, and the condition of the same has been maintained better than in previous years.

Seven smoke observations have been recorded of chimneys at various works. A summons has been before the Court, and an order to abate the nuisance made; in another case notice having been served, the owners have erected a more substantial chimney.

The Soap Works mentioned in my last annual report having proved satisfactory, the proprietor has been granted permission to continue the use of the same; no complaints have been made of the works during the year.

FLIXTON.

The cleansing of ashpits has been carried out as in previous years, the number of houses attended to being 508, and 50 houses, provided with portable dust-boxes, are emptied each week by the Council's contractor.

The proposal submitted at the close of 1900, that the Council should undertake the whole of the work, was not proceeded with, a further arrangement being made with a local contractor to do the work as hitherto. The present system is not satisfactory; a district with such a population as this requires a more frequent scavenging than is now possible. It would be of considerable advantage if this branch of sanitary work were put on a proper footing.

A lease has been entered into for a suitable place to deposit dry ashes, and the depot is kept in a satisfactory condition.

Attention having been drawn to the condition of Carr's Ditch, within this township, a circular letter was sent to all abutting owners and occupiers, resulting in some portions being attended to. It is intended to complete the work as early as possible.

WATER SUPPLY.

Davyhulme :—

A private pipe has been laid in Woods Road, from which a supply of water is obtained for the dwelling-houses at Wood and Stott's farms.

An extension of water main has been laid, by arrangements made by the Council, to supply Mr. Hardman's house at Knoll s Cornhills, Moorside Road.

The Redcliffe Road extension required a payment to the Corporation of £5 15s. 11d., as against £5 19s. 8d. last year.

Flixton Township :—

The main extension in Irlam Road showed a balance due to the Corporation of 14s. 3d., as against £1 0s. 3d. the previous year. The main in Church Road was £1 14s. 4d. short of the required amount. This has been paid to the Corporation, and recovered from the owner of the property supplied with water.

Clifton Township :—

Rake Lane extensions 1 and 2 were deficient of the required rental by £1 9s. 4d. as against £2 13s. 10d. last year. It is expected that this liability will now cease.

SLAUGHTER-HOUSES.

These premises are kept in good structural condition. In one instance it was necessary to serve notice upon the occupier to abate a nuisance caused by the too long storage of manure near to the building. One new building has been erected, in accordance with plans approved by the Council, and is nearly ready for use.

DAIRIES AND COWSHEDS.

No change has taken place in the number of premises registered. The present number is as follows :

Barton Moss.	Clifton.	Davyhulme.	Flixton.	Total.
5	11	8	10	34

INFECTIOUS DISEASES.

The number of houses reported as containing one or more cases of infectious disease will be seen on reference to table 2, and table 3 gives a monthly record for each township.

TABLE 2.

	1899.	1900.	1901.
Scarlet Fever	31	19	35
Diphtheria	16	19	36
Croup	0	2	0
Puerperal Fever	0	0	1
Enteric Fever	24	9	15
Erysipelas	10	8	9
Totals...	81	57	96

TABLE 3.

BARTON MOSS.

Nature of Disease.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Diphtheria... ...	...	1	1	...	1	1	1	...	...	...	...	...	5
Enteric Fever..	...	...	1	1	...	...	...	..	...	...	...	...	2
Total... ...	...	1	2	1	1	1	1	...	...	...	..	...	7

CLIFTON.

Scarlet Fever...	...	3	...	3	3	3	...	1	...	...	...	2	15
Diphtheria ...	3	1	2	...	3	1	1	...	2	3	4	7	27
Enteric Fever..	...	...	...	...	...	1	...	2	5	2	2	1	13
Erysipelas ...	...	...	...	...	...	1	...	...	...	...	1	3	5
Totals ...	3	4	2	3	6	6	1	3	7	5	7	13	60

DAVYHULME.

Scarlet Fever...	...	...	1	...	...	2	1	...	...	...	...	...	4
Diphtheria ...	...	...	...	...	..	...	...	1	1		...	..	2
Erysipelas ...	...	...	.	...	...	...	...	1	...	..	...	...	1
Totals ...	...	...	1	...	...	2	1	2	1	...	...	...	7

FLIXTON.

Scarlet Fever...	2	1	...	1	...	1	3	3	...	4	1	...	16
Diphtheria ...	1	...	...	...	...	...	...	...	...	1	...	...	2
Puerperal ...	...	...	...	..	...	1	...	...	...	...	...	...	1
Erysipelas ...	..	...	1	...	...	...	...	...	1	...	1	...	3
Totals	3	1	1	1	...	2	3	3	1	5	2	...	22
Totals for all Districts ...	6	6	6	5	7	11	6	8	9	10	9	13	96

Five cases of diphtheria, four scarlet fever, and five of enteric fever have been removed to Ladywell Sanatorium; also two children whose parents were suffering from diphtheria were sent to the hospital along with the rest of the family. Bedding from 44 houses has been disinfected at the Sanatorium, and 82 houses have been disinfected either by formaldehyde or sulphur.

The stations for free distribution of disinfectants have been maintained, and are much used.

HACKNEY CARRIAGES.

The licences held during 1900 at Flixton and Davyhulme have been renewed. The conduct of the drivers has been free from complaint, and the carriages are in fair condition.

In Davyhulme 2 omnibus licenses have been granted to run from Barton Bridge to Urmston. The licenses held by the Trafford Park Estates Company, Limited, to work four tram cars in the Park have been renewed.

PUBLIC LIGHTING.

Barton Moss and Clifton :—

No new lamps have been erected in these townships.

Davyhulme :—

One new lamp has been erected in Redcliffe Road, and an improved lantern, with incandescent burner fixed, at the junction of Barton and Redcliffe Roads, opposite the swing bridge. Four additional lamps have been erected in Bent Lanes, and are supplied with patent gas oil.

Flixton :—

A Local Government Board Inquiry has been held and sanction to carry out a scheme of lighting has been received. On December 31st six lamps were lighted for the first time. Arrangements have been entered into to put up 102 lamps as early as possible; provision being made to introduce incandescent burners in the lamps.

I am, Gentlemen,

Your obedient servant,

WILLIAM BLAND,

Asso. San. Inst.